

DRILL HOLES

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BY: Aaron Hottenstein Division: P068 Highway Traffic/GMA Emp

BORDER REV: DATE: Moreh:12/20/907

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES MODIFYING THE EXISTING EXCLUSIVE/PERMISSIVE LEFT-TURN PHASE FOR NORTHBOUND US 1 TO PERMIT LEFT TURNS ON A FLASHING RED ARROW. US 1 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION IS TO OPERATE IN A NEMA SIX-PHASE, FULLY ACTUATED MODE WITH EXCLUSIVE LEFT-TURN PHASING FOR NORTHBOUND AND SOUTHBOUND TRAFFIC DURING PEAK PERIODS. AN OVERLAP FOR EASTBOUND RIGHT-TURNING TRAFFIC, AND SIDE STREET SPLIT PHASING. DURING PEAK PERIODS, A NORTHBOUND QUEUE DETECTOR WILL IMPLEMENT A LEAD-LAG LEFT-TURN PHASE. THE NORTHBOUND AND SOUTHBOUND US 1 LEFT-TURN WILL FLASH "RED ARROW" UNTIL VEHICLES ACTUATE THE LEFT-TURN SIGNALS DURING THE OFF-PEAK PERIOD.

I. SPECIAL NOTES

THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOW:

DISTRICT

MS. ANDREA ABEND
UTILITY ENGINEER
301-624-8115/8116

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-624-8140/8141

MR. JOHN HUCHROWSKI
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-624-8200/8201

MS. SUE PALMER
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-624-8105/8106

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670

MR. MIKE STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.03-09, 104.03-11, 104.03-13.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO./CAT CODE	QUANTITY	DESCRIPTION
9571	111.8 SF	SHEET ALUMINUM SIGNS CONSISTING OF:
	4 EACH	R10-12(2), 48"x36", MAST ARM MOUNT
	1 EACH	R1-2, 36"x36", WOOD POLE MOUNT
	2 EACH	M3-3, 24"x12", WOOD POLE MOUNT
	2 EACH	M1-4, 24"x24", WOOD POLE MOUNT
	2 EACH	M6-1, 21"x15", WOOD POLE MOUNT
	1 EACH	ASSOCIATED SHIELD ASSEMBLY, 24"x48", POLE MOUNT
	1 EACH	ASSOCIATED SHIELD ASSEMBLY, 48"x72", POLE MOUNT
	1 EACH	R5-1, 30"x30", WOOD POLE MOUNT

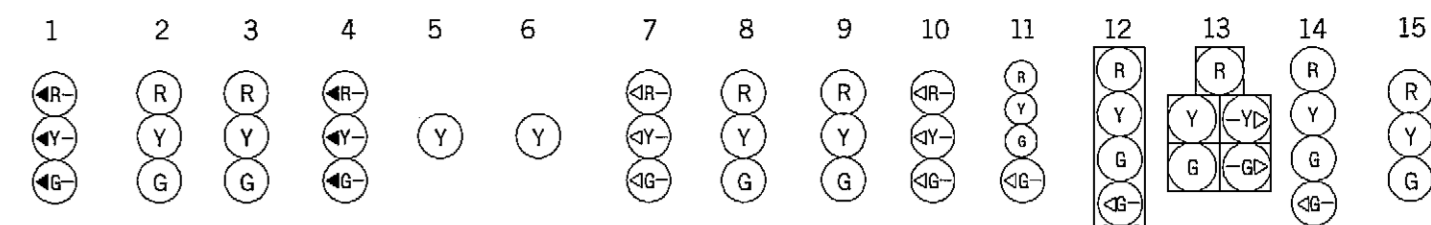
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO./CAT CODE	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5002	560 LF	5 INCH HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
5005	40 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
8001	12 EA	12 INCH LED SIGNAL HEAD SECTION
8023	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8039	36 LF	WOOD SIGN SUPPORT UP TO 4 INCH X 6 INCH
8040	112 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8055	30 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8056	130 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



PHASE CHART



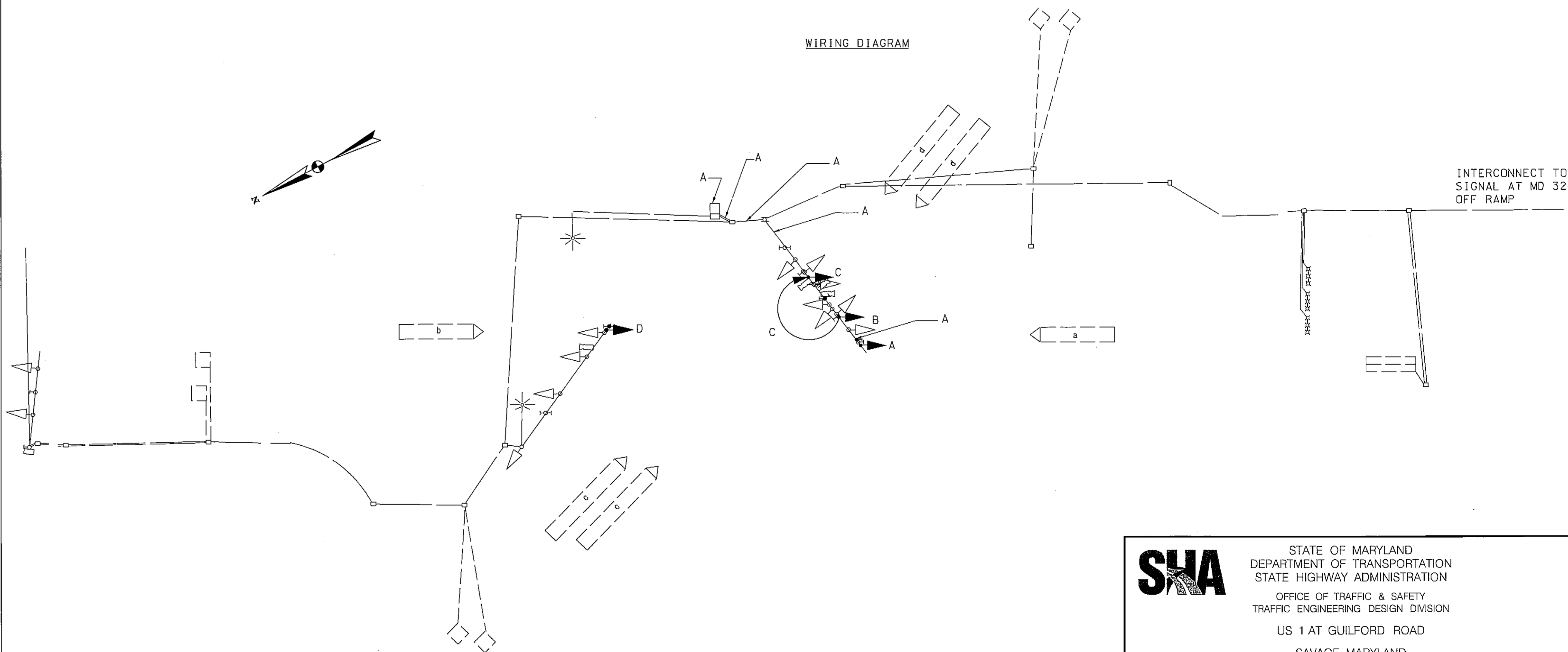
PHASE 1 AND 5	◀G-	R	R	◀G-	FLY	FLY	◀G-	R	R	◀G-	R/R	R/R	R/G	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6															
PHASE 1 AND 6	◀R-	R	R	◀R-	DARK	DARK	◀G-	G	G	◀G-	R	R	R	R	R
1 AND 6 CHANGE	◀R-	R	R	◀R-	DARK	DARK	◀Y-	Y	Y	◀Y-	R	R	R	R	R
PHASE 2 AND 5	◀G-	G	G	◀G-	FLY	FLY	◀R-	R	R	◀R-	R	R	R/G	R	R
2 AND 5 CHANGE	◀Y-	Y	Y	◀Y-	FLY	FLY	◀R-	R	R	◀R-	R	R	R/Y	R	R
PHASE 2 AND 6	FL/RA	G	G	FL/RA	DARK	DARK	FL/RA	G	G	FL/RA	R	R	R	R	R
THE CONTROLLER MAY SKIP TO PHASE 2+5															
2 AND 6 CHANGE	◀R-	Y	Y	◀R-	DARK	DARK	◀R-	Y	Y	◀R-	R	R	R	R	R
PHASE 3	◀R-	R	R	◀R-	FLY	FLY	◀R-	R	R	◀R-	R	R	R	G/G	G
PHASE 3 CHANGE	◀R-	R	R	◀R-	FLY	FLY	◀R-	R	R	◀R-	R	R	R	Y	Y
PHASE 4	◀R-	R	R	◀R-	FLY	FLY	◀R-	R	R	◀R-	G/G	G/G	G	R	R
PHASE 4 CHANGE	◀R-	R	R	◀R-	FLY	FLY	◀R-	R	R	◀R-	Y	Y	Y	R	R
FLASHING OPERATION	FL/RA	FL/Y	FL/Y	FL/RA	DARK	DARK	FL/RA	FL/Y	FL/Y	FL/RA	FL/R	FL/R	FL/R	FL/R	FL/R

* SIGNALS 5 AND 6 FLASH WHEN ACTIVATED.

PRE-EMPTION

PRE-EMPTION PHASE 2 AND 5	◀G-	G	G	◀G-	FLY	FLY	◀R-	R	R	◀R-	R	R	R/G	R	R
PRE-EMPTION PHASE 2 AND 5 CLEARANCE	◀Y-	Y	Y	◀Y-	FLY	FLY	◀R-	R	R	◀R-	R	R	R/Y	R	R

WIRING DIAGRAM



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 1 AT GUILFORD ROAD
SAVAGE, MARYLAND

GENERAL INFORMATION SHEET

SCALE 1" = 20' ADVERTISED DATE 7/2011 CONTRACT NO. XX6505185

DESIGNED BY AFAMH COUNTY HOWARD

DRAWN BY RLB LOGMILE 13000103.26

CHECKED BY JEL TOD NO. K917

F.A.P. NO. SEE TITLE SHEET

TS NO. 270M DRAWING SG-2 OF 2 SHEET NO. 2 OF 2

REDLINE NO. 1

PLOTTED: 10:30 AM on Tuesday, October 11, 2011
FILE: M:\2010\10050518.20\Submit\Final Submission\K917GSheet.dgn